

### **SUBSTITUTE ABSTRACT**

A cooled mandrel for winding a band-type product into a coil, including a set of adjacent segments mounted to slide radially on a central shaft and fitted each of a cooling circuit having two orifices, respectively an inlet orifice and an outlet orifice, connected each, by a connection fitting having a variable length, to a supply or exhaust duct, respectively of a heat exchanging fluid. The linking fittings corresponding to each segment are connected to a distribution part threaded on a lateral face of the shaft, wherein both ducts emerge transversally, respectively of the supply duct and the exhaust duct, which are arranged inside the central shaft.